PCT 371 Routing Sheet

APPLICATION

IFW DocCode - SEQREQ

Index using Current Date

10/599,313

TO BE DELIVERED TO:

Tech Center Scanning

Sequence Rule Compliance Review Item

	CRF, paper copy of sequence listing, and statement that both are same missing
X	CRF contains error(s) according to STIC Report
	CRF damaged or unreadable according to STIC Report
	CRF transferred from prior application is not compliant

Place an "X" in the appropriate box

SPE 1651

Comment Sheet

APPLICATION SERIAL NUMBER

10/559,313

DOES NOT COMPLY WITH THE SEQUENCE RULES. See reasons below.

The sequence listing filed by the Applicant on September 29, 2006 could not be accepted by STIC (please see attached comment from STIC, dated October 03, 2006).

SPE 1651

STIC Biotechnology Systems Branch

RAW SEQUENCE LISTING ERROR REPORT

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) detected errors when processing the following computer readable form:

Application Serial Number: 10/599,313
Source: EFW
Date Processed by STIC: 10/3/06

THE ATTACHED PRINTOUT EXPLAINS DETECTED ERRORS.
PLEASE FORWARD THIS INFORMATION TO THE APPLICANT BY EITHER:

1) **INCLUDING A COPY OF THIS PRINTOUT IN YOUR NEXT COMMUNICATION TO THE APPLICANT, WITH A NOTICE TO COMPLY or,**
2) **TELEPHONING APPLICANT AND FAXING A COPY OF THIS PRINTOUT, WITH A NOTICE TO COMPLY**

FOR CRF SUBMISSION AND PATENTIN SOFTWARE QUESTIONS, PLEASE CONTACT MARK SPENCER, TELEPHONE: 571-272-2510; FAX: 571-273-0221

TO **REDUCE** ERRORED SEQUENCE LISTINGS, **PLEASE** USE THE **CHECKER VERSION 4.4.0 PROGRAM**, ACCESSIBLE THROUGH THE U.S. PATENT AND TRADEMARK OFFICE WEBSITE. SEE BELOW FOR ADDRESS:

http://www.uspto.gov/web/offices/pac/checker/chkrnote.htm

Applicants submitting genetic sequence information electronically on diskette or CD-Rom should be aware that there is a possibility that the disk/CD-Rom may have been affected by treatment given to all incoming mail.
Please consider using alternate methods of submission for the disk/CD-Rom or replacement disk/CD-Rom.
Any reply including a sequence listing in electronic form should NOT be sent to the 20231 zip code address for the United States Patent and Trademark Office, and instead should be sent via the following to the indicated addresses:

1. EFS-Bio (<**http://www.uspto.gov/ebc/efs/downloads/documents.htm**>, **EFS Submission User Manual** - ePAVE)
2. **U.S. Postal Service:** Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450
3. **Hand Carry, Federal Express, United Parcel Service, or other delivery service (EFFECTIVE 01/14/05):** U.S. Patent and Trademark Office, Mail Stop Sequence, Customer Window, Randolph Building, 401 Dulany Street, Alexandria, VA 22314

Revised 01/10/06

IFWO

RAW SEQUENCE LISTING DATE: 10/03/2006
PATENT APPLICATION: US/10/599,313 TIME: 10:20:32

Input Set : A:\20010-06USA.ST25.txt
Output Set: N:\CRF4\10032006\J599313.raw

2 <110> APPLICANT: POSCO
3 POSTECH Foundation
4 CHA, Hyung Joon
5 HWANG, Dong Soo
7 <120> TITLE OF INVENTION: Mussel Bioadhesive
9 <130> FILE REFERENCE: 20010-06USA
11 <140> CURRENT APPLICATION NUMBER: US 10/599,313
C--> 12 <141> CURRENT FILING DATE: 2006-09-25
14 <150> PRIOR APPLICATION NUMBER: PCT/KR2005/000888
15 <151> PRIOR FILING DATE: 2005-03-25
17 <150> PRIOR APPLICATION NUMBER: US 60/556,805
18 <151> PRIOR FILING DATE: 2004-03-26
20 <160> NUMBER OF SEQ ID NOS: 35
22 <170> SOFTWARE: KopatentIn 1.71
24 <210> SEQ ID NO: 1
25 <211> LENGTH: 30
26 <212> TYPE: DNA
27 <213> ORGANISM: Artificial Sequence
29 <220> FEATURE:
30 <223> OTHER INFORMATION: primer
33 <400> SEQUENCE: 1
34 ggcctgcagc agttctgaag aatacaaggg 30
37 <210> SEQ ID NO: 2
38 <211> LENGTH: 29
39 <212> TYPE: DNA
40 <213> ORGANISM: Artificial Sequence
42 <220> FEATURE:
43 <223> OTHER INFORMATION: primer
46 <400> SEQUENCE: 2
47 gtagatctat acgccggacc agtgaacag 29
50 <210> SEQ ID NO: 3
51 <211> LENGTH: 21
52 <212> TYPE: DNA
53 <213> ORGANISM: Artificial Sequence
55 <220> FEATURE:
56 <223> OTHER INFORMATION: primer
59 <400> SEQUENCE: 3
60 cttgtatttt ccgctgtttt t 21
63 <210> SEQ ID NO: 4
64 <211> LENGTH: 21
65 <212> TYPE: DNA
66 <213> ORGANISM: Artificial Sequence
68 <220> FEATURE:

Please Not Comply
Corrected Diskette Needed
(pg. 3592)

RAW SEQUENCE LISTING DATE: 10/03/2006
PATENT APPLICATION: US/10/599,313 TIME: 10:20:32

Input Set : A:\20010-06USA.ST25.txt
Output Set: N:\CRF4\10032006\J599313.raw

```
69 <223> OTHER INFORMATION: primer
72 <400> SEQUENCE: 4
73 aaaaacagcg gaaaatacaa g                                              21
76 <210> SEQ ID NO: 5
77 <211> LENGTH: 228
78 <212> TYPE: DNA
79 <213> ORGANISM: Mytilus galloprovincialis
81 <220> FEATURE:
82 <221> NAME/KEY: CDS
83 <222> LOCATION: (1)..(228)
84 <223> OTHER INFORMATION: Mytilus galloprovincialis foot protein-5 cDNA
87 <400> SEQUENCE: 5
88 agt tct gaa gaa tac aaa ggt ggt tat tac cca ggc aat act tac cac       48
89 Ser Ser Glu Glu Tyr Lys Gly Gly Tyr Tyr Pro Gly Asn Thr Tyr His
90   1               5                  10                  15
92 tat cat tca ggt ggt agt tat cac gga tcc ggc tat cat gga gga tat       96
93 Tyr His Ser Gly Gly Ser Tyr His Gly Ser Gly Tyr His Gly Gly Tyr
94             20                  25                  30
96 aag gga aag tat tac gga aag gca aag aaa tac tat tat aaa tat aaa      144
97 Lys Gly Lys Tyr Tyr Gly Lys Ala Lys Lys Tyr Tyr Tyr Lys Tyr Lys
98         35                  40                  45
100 aac agc gga aaa tac aag tat ctg aag aaa gct aga aaa tac cat aga     192
101 Asn Ser Gly Lys Tyr Lys Tyr Leu Lys Lys Ala Arg Lys Tyr His Arg
102      50                  55                  60
104 aag ggt tac aag aag tat tat gga ggt ggt agc agt                    228
105 Lys Gly Tyr Lys Lys Tyr Tyr Gly Gly Gly Ser Ser
106  65                  70                  75
109 <210> SEQ ID NO: 6
110 <211> LENGTH: 76
111 <212> TYPE: PRT
112 <213> ORGANISM: Mytilus galloprovincialis
114 <400> SEQUENCE: 6
115 Ser Ser Glu Glu Tyr Lys Gly Gly Tyr Tyr Pro Gly Asn Thr Tyr His
116   1               5                  10                  15
118 Tyr His Ser Gly Gly Ser Tyr His Gly Ser Gly Tyr His Gly Gly Tyr
119             20                  25                  30
121 Lys Gly Lys Tyr Tyr Gly Lys Ala Lys Lys Tyr Tyr Tyr Lys Tyr Lys
122         35                  40                  45
124 Asn Ser Gly Lys Tyr Lys Tyr Leu Lys Lys Ala Arg Lys Tyr His Arg
125      50                  55                  60
127 Lys Gly Tyr Lys Lys Tyr Tyr Gly Gly Gly Ser Ser
128  65                  70                  75
131 <210> SEQ ID NO: 7
132 <211> LENGTH: 180
133 <212> TYPE: DNA
134 <213> ORGANISM: mytilus edulis
136 <220> FEATURE:
137 <221> NAME/KEY: CDS
138 <222> LOCATION: (1)..(180)
```

RAW SEQUENCE LISTING DATE: 10/03/2006
PATENT APPLICATION: US/10/599,313 TIME: 10:20:32

Input Set : A:\20010-06USA.ST25.txt
Output Set: N:\CRF4\10032006\J599313.raw

```
139 <223> OTHER INFORMATION: 6 times repeated sequence derived from mytilus edulis foot
140       protein-1
143 <400> SEQUENCE: 7
144 gct aaa ccg tct tac ccg ccg acc tac aaa gca aaa ccc tcg tac cca          48
145 Ala Lys Pro Ser Tyr Pro Pro Thr Tyr Lys Ala Lys Pro Ser Tyr Pro
146   1               5                  10                  15
148 ccg act tat aag gct aaa cct agc tat cca cct acg tac aaa gct aaa          96
149 Pro Thr Tyr Lys Ala Lys Pro Ser Tyr Pro Pro Thr Tyr Lys Ala Lys
150             20                  25                  30
152 ccg tct tac ccg ccg act tac aaa gca aaa ccg tcc tac cct ccg acc         144
153 Pro Ser Tyr Pro Pro Thr Tyr Lys Ala Lys Pro Ser Tyr Pro Pro Thr
154         35                  40                  45
156 tat aag gct aaa ccg agt tac ccc ccg act tac aaa                        180
157 Tyr Lys Ala Lys Pro Ser Tyr Pro Pro Thr Tyr Lys
158     50                  55                  60
161 <210> SEQ ID NO: 8
162 <211> LENGTH: 60
163 <212> TYPE: PRT
164 <213> ORGANISM: mytilus edulis
166 <400> SEQUENCE: 8
167 Ala Lys Pro Ser Tyr Pro Pro Thr Tyr Lys Ala Lys Pro Ser Tyr Pro
168   1               5                  10                  15
170 Pro Thr Tyr Lys Ala Lys Pro Ser Tyr Pro Pro Thr Tyr Lys Ala Lys
171             20                  25                  30
173 Pro Ser Tyr Pro Pro Thr Tyr Lys Ala Lys Pro Ser Tyr Pro Pro Thr
174         35                  40                  45
176 Tyr Lys Ala Lys Pro Ser Tyr Pro Pro Thr Tyr Lys
177     50                  55                  60
180 <210> SEQ ID NO: 9
181 <211> LENGTH: 411
182 <212> TYPE: DNA
183 <213> ORGANISM: Artificial Sequence
185 <220> FEATURE:
186 <223> OTHER INFORMATION: Bioadhesive protein(mgfp-150) coding sequence
189 <220> FEATURE:
190 <221> NAME/KEY: CDS
191 <222> LOCATION: (1)..(411)
192 <223> OTHER INFORMATION: Bioadhesive protein(mgfp-150)
195 <400> SEQUENCE: 9
196 gct aaa ccg tct tac ccg ccg acc tac aaa gca aaa ccc tcg tac cca
197 Ala Lys Pro Ser Tyr Pro Pro Thr Tyr Lys Ala Lys Pro Ser Tyr Pro
198   1               5                  10                  15
200 ccg act tat aag gct aaa cct agc tat cca cct acg tac aaa gct aaa
201 Pro Thr Tyr Lys Ala Lys Pro Ser Tyr Pro Pro Thr Tyr Lys Ala Lys
202             20                  25                  30
204 ccg tct tac ccg ccg act tac aaa gca aaa ccg tcc tac cct ccg acc         144
205 Pro Ser Tyr Pro Pro Thr Tyr Lys Ala Lys Pro Ser Tyr Pro Pro Thr
206         35                  40                  45
208 tat aag gct aaa ccg agt tac ccc ccg act tac aaa agt tct gaa gaa         192
```

Pk EXPLAIN source of genetic material. Invalid response

see error explanation on page 6.0

RAW SEQUENCE LISTING DATE: 10/03/2006
PATENT APPLICATION: US/10/599,313 TIME: 10:20:32

Input Set : A:\20010-06USA.ST25.txt
Output Set: N:\CRF4\10032006\J599313.raw

```
209 Tyr Lys Ala Lys Pro Ser Tyr Pro Pro Thr Tyr Lys Ser Ser Glu Glu
210      50                  55                  60
212 tac aag ggt ggt tat tac cca ggc aat tcg aac cac tat cat tca ggt          240
213 Tyr Lys Gly Gly Tyr Tyr Pro Gly Asn Ser Asn His Tyr His Ser Gly
214  65                  70                  75                  80
216 ggt agt tat cac gga tcc ggc tac cat gga gga tat aag gga aag tat          288
217 Gly Ser Tyr His Gly Ser Gly Tyr His Gly Gly Tyr Lys Gly Lys Tyr
218                  85                  90                  95
220 tac gga aag gca aag aaa tac tat tat aaa tat aaa aac agc gga aaa          336
221 Tyr Gly Lys Ala Lys Lys Tyr Tyr Tyr Lys Tyr Lys Asn Ser Gly Lys
222              100                 105                 110
224 tac aag tat cta aag aaa gct aga aaa tac cat aga aag ggt tac aag          384
225 Tyr Lys Tyr Leu Lys Lys Ala Arg Lys Tyr His Arg Lys Gly Tyr Lys
226          115                 120                 125
228 aag tat tat gga ggt agc agt gaa ttc                                     411
229 Lys Tyr Tyr Gly Gly Ser Ser Glu Phe
230      130                 135
233 <210> SEQ ID NO: 10
234 <211> LENGTH: 137
235 <212> TYPE: PRT
236 <213> ORGANISM: Artificial Sequence
W--> 238 <220> FEATURE:
W--> 238 <223> OTHER INFORMATION:
W--> 238 <400> 10
239 Ala Lys Pro Ser Tyr Pro Pro Thr Tyr Lys Ala Lys Pro Ser Tyr Pro
240   1               5                  10                  15
242 Pro Thr Tyr Lys Ala Lys Pro Ser Tyr Pro Pro Thr Tyr Lys Ala Lys
243              20                  25                  30
245 Pro Ser Tyr Pro Pro Thr Tyr Lys Ala Lys Pro Ser Tyr Pro Pro Thr
246          35                  40                  45
248 Tyr Lys Ala Lys Pro Ser Tyr Pro Pro Thr Tyr Lys Ser Ser Glu Glu
249      50                  55                  60
251 Tyr Lys Gly Gly Tyr Tyr Pro Gly Asn Ser Asn His Tyr His Ser Gly
252  65                  70                  75                  80
254 Gly Ser Tyr His Gly Ser Gly Tyr His Gly Gly Tyr Lys Gly Lys Tyr
255                  85                  90                  95
257 Tyr Gly Lys Ala Lys Lys Tyr Tyr Tyr Lys Tyr Lys Asn Ser Gly Lys
258              100                 105                 110
260 Tyr Lys Tyr Leu Lys Lys Ala Arg Lys Tyr His Arg Lys Gly Tyr Lys
261          115                 120                 125
263 Lys Tyr Tyr Gly Gly Ser Ser Glu Phe
264      130                 135
267 <210> SEQ ID NO: 11
268 <211> LENGTH: 411
269 <212> TYPE: DNA
270 <213> ORGANISM: Artificial Sequence
272 <220> FEATURE:
273 <223> OTHER INFORMATION: Bioadhesive protein(mgfp-051) coding sequence
276 <220> FEATURE:
```

pls explain source of genetic material.

pls insert ← mandatory, IF <213> response is Artificial or Unknown, pls explain in section <220>-<223>

What is the source of genetic material? Invalid response

↑ see error explanation on page 6.

RAW SEQUENCE LISTING DATE: 10/03/2006
PATENT APPLICATION: US/10/599,313 TIME: 10:20:32

Input Set : A:\20010-06USA.ST25.txt
Output Set: N:\CRF4\10032006\J599313.raw

277 <221> NAME/KEY: CDS
278 <222> LOCATION: (1)..(411)
279 <223> OTHER INFORMATION: Bioadhesive protein(mgfp-051)
282 <400> SEQUENCE: 11
283 agt tct gaa gaa tac aag ggt ggt tat tac cca ggc aat tcg aac cac 48
284 Ser Ser Glu Glu Tyr Lys Gly Gly Tyr Tyr Pro Gly Asn Ser Asn His
285 1 5 10 15
287 tat cat tca ggt ggt agt tat cac gga tcc ggc tac cat gga gga tat 96
288 Tyr His Ser Gly Gly Ser Tyr His Gly Ser Gly Tyr His Gly Gly Tyr
289 20 25 30
291 aag gga aag tat tac gga aag gca aag aaa tac tat tat aaa tat aaa 144
292 Lys Gly Lys Tyr Tyr Gly Lys Ala Lys Lys Tyr Tyr Tyr Lys Tyr Lys
293 35 40 45
295 aac agc gga aaa tac aag tat cta aag aaa gct aga aaa tac cat aga 192
296 Asn Ser Gly Lys Tyr Lys Tyr Leu Lys Lys Ala Arg Lys Tyr His Arg
297 50 55 60
299 aag ggt tac aag aag tat tat gga ggt agc agt gaa ttc gct aaa ccg 240
300 Lys Gly Tyr Lys Lys Tyr Tyr Gly Gly Ser Ser Glu Phe Ala Lys Pro
301 65 70 75 80
303 tct tac ccg ccg acc tac aaa gca aaa ccc tcg tac cca ccg act tat 288
304 Ser Tyr Pro Pro Thr Tyr Lys Ala Lys Pro Ser Tyr Pro Pro Thr Tyr
305 85 90 95
307 aag gct aaa cct agc tat cca cct acg tac aaa gct aaa ccg tct tac 336
308 Lys Ala Lys Pro Ser Tyr Pro Pro Thr Tyr Lys Ala Lys Pro Ser Tyr
309 100 105 110
311 ccg ccg act tac aaa gca aaa ccg tcc tac cct ccg acc tat aag gct 384
312 Pro Pro Thr Tyr Lys Ala Lys Pro Ser Tyr Pro Pro Thr Tyr Lys Ala
313 115 120 125
315 aaa ccg agt tac ccc ccg act tac aaa 411
316 Lys Pro Ser Tyr Pro Pro Thr Tyr Lys
317 130 135
320 <210> SEQ ID NO: 12
321 <211> LENGTH: 137
322 <212> TYPE: PRT
323 <213> ORGANISM: Artificial Sequence
W--> 325 <220> FEATURE:
W--> 325 <223> OTHER INFORMATION:
W--> 325 <400> 12
326 Ser Ser Glu Glu Tyr Lys Gly Gly Tyr Tyr Pro Gly Asn Ser Asn His
327 1 5 10 15
329 Tyr His Ser Gly Gly Ser Tyr His Gly Ser Gly Tyr His Gly Gly Tyr
330 20 25 30
332 Lys Gly Lys Tyr Tyr Gly Lys Ala Lys Lys Tyr Tyr Tyr Lys Tyr Lys
333 35 40 45
335 Asn Ser Gly Lys Tyr Lys Tyr Leu Lys Lys Ala Arg Lys Tyr His Arg
336 50 55 60
338 Lys Gly Tyr Lys Lys Tyr Tyr Gly Gly Ser Ser Glu Phe Ala Lys Pro
339 65 70 75 80
341 Ser Tyr Pro Pro Thr Tyr Lys Ala Lys Pro Ser Tyr Pro Pro Thr Tyr

Pls explain source of genetic material. See error explanation on page 6.

Pls insert

The type of errors shown exist throughout the Sequence Listing. Please check subsequent sequences for similar errors.

RAW SEQUENCE LISTING ERROR SUMMARY DATE: 10/03/2006
PATENT APPLICATION: US/10/599,313 TIME: 10:20:33

Input Set : A:\20010-06USA.ST25.txt
Output Set: N:\CRF4\10032006\J599313.raw

Error Explanation:

Use of <220> Feature(NEW RULES):
Sequence(s) are missing the <220> Feature and associated headings.
Use of <220> to <223> is MANDATORY if <213> ORGANISM is "Artificial Sequence" or "Unknown". Please explain source of genetic material in <220> to <223> section (See "Federal Register," 6/01/98, Vol. 63, No. 104,pp.29631-32) (Sec.1.823 of new Rules)

Seq#:10,12,14,16,18,20,22

VERIFICATION SUMMARY DATE: 10/03/2006
PATENT APPLICATION: US/10/599,313 TIME: 10:20:33

Input Set : A:\20010-06USA.ST25.txt
Output Set: N:\CRF4\10032006\J599313.raw

L:12 M:271 C: Current Filing Date differs, Replaced Current Filing Date
L:238 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ#:10, <213>
ORGANISM:Artificial Sequence
L:238 M:258 W: Mandatory Feature missing, <223> Tag not found for SEQ#:10, <213>
ORGANISM:Artificial Sequence
L:238 M:258 W: Mandatory Feature missing, <223> Blank for SEQ#:10,Line#:238
L:325 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ#:12, <213>
ORGANISM:Artificial Sequence
L:325 M:258 W: Mandatory Feature missing, <223> Tag not found for SEQ#:12, <213>
ORGANISM:Artificial Sequence
L:325 M:258 W: Mandatory Feature missing, <223> Blank for SEQ#:12,Line#:325
L:428 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ#:14, <213>
ORGANISM:Artificial Sequence
L:428 M:258 W: Mandatory Feature missing, <223> Tag not found for SEQ#:14, <213>
ORGANISM:Artificial Sequence
L:428 M:258 W: Mandatory Feature missing, <223> Blank for SEQ#:14,Line#:428
L:524 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ#:16, <213>
ORGANISM:Artificial Sequence
L:524 M:258 W: Mandatory Feature missing, <223> Tag not found for SEQ#:16, <213>
ORGANISM:Artificial Sequence
L:524 M:258 W: Mandatory Feature missing, <223> Blank for SEQ#:16,Line#:524
L:613 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ#:18, <213>
ORGANISM:Artificial Sequence
L:613 M:258 W: Mandatory Feature missing, <223> Tag not found for SEQ#:18, <213>
ORGANISM:Artificial Sequence
L:613 M:258 W: Mandatory Feature missing, <223> Blank for SEQ#:18,Line#:613
L:715 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ#:20, <213>
ORGANISM:Artificial Sequence
L:715 M:258 W: Mandatory Feature missing, <223> Tag not found for SEQ#:20, <213>
ORGANISM:Artificial Sequence
L:715 M:258 W: Mandatory Feature missing, <223> Blank for SEQ#:20,Line#:715
L:832 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ#:22, <213>
ORGANISM:Artificial Sequence
L:832 M:258 W: Mandatory Feature missing, <223> Tag not found for SEQ#:22, <213>
ORGANISM:Artificial Sequence
L:832 M:258 W: Mandatory Feature missing, <223> Blank for SEQ#:22,Line#:832